

New Nebulae discovered and observed by Alph. Borrelly at the Marseilles Observatory, with the Eichens Searcher.

Mean Positions for 1872°0.

Name of Comp. Star.	R.A.	N.P.D.	Remarks.
a	6 ^h 39 ^m 21 ^s .87	5°26'37"	Nebula pretty faint, extended, elliptic, no bright point.
b	6 48 44.78	4 4 20.2	Nebula pretty bright, moderately extended, round; nucleus of 12-13 mag.
c	8 51 44.10	11 25 18.2	Nebula pretty bright, 3' in extent, elliptic; no nucleus.
d	11 37 50.45	72 43 31.6	Nebula round, little extended; small nucleus at centre.
e	11 45 26.37	72 28 20.3	Nebula pretty faint, extended, elliptic; no bright point.
e	11 45 35.87	72 25 46.1	Nebula exceedingly faint, nearly round, almost undiscernible.

Mean Positions of the Comparison Stars for 1872°0.

Name of Stag.	Mag.	R.A. h m s	N.P.D. ° ' "
a 374 Eltzen	7.5	6 25 56.27	5 11' 46.4
b 381 Eltzen	7.8	6 41 8.55	4 3 39.8
c 1373 Fedorenko	8.0	8 41 35.40	11 22 51.2
d 666 Weisse, hora 11	9.0	11 35 5.45	72 37 6.2
e 889 Weisse, hora 11	8.9	11 46 36.24	72 26 11.8

Variable Star.

On November 3, 1871, a star in R.A. $6^h17^m17^s.68$ and N.P.D. $100^\circ10'10''$ (mean position for 1872°0) appeared to be of magnitude 6-7. On the 8th it was of the 8th magnitude. On the 24th I noted it as of the 10th magnitude. From November 30 until January 1872 I noticed no change. Since then I have been unable to observe it.

Discovery of Minor Planets (119) and (120).

A communication has been received from M. Delaunay, Director of the Observatory of Paris, announcing the discovery, by M. Paul Henry, of Paris, of Minor Planet (119). It was first observed on the 9th of April, at 11 P.M.; but the observation then obtained was only approximate. A second observation was made on the next night by M. Prosper Henry, with the equatoreal, in the garden of the Observatory of Paris.

1872, April 9	Paris M.T.	R.A.	N.P.D.
	h m s	h m s	° ' "
10	11 0 0	13 18 59	98° 40' 23"
10	12 41 49	13 18 4.61	..
10	12 56 0	..	98 37 34.0

The hourly motion in R.A. is $-1^s.75$, and in N.P.D. $-25''$. The planet is of the 11th magnitude.

The following telegram has been received by M. Delaunay from M. Borrelly, of Marseilles :—
 "I have discovered this evening at 11^h, a new Minor Planet 120, the observed positions of which are as follows :—

	Marseilles M.T.	App. R.A.	App. N.P.D.
	h m s	h m s	° ' "
1872, April 10	12 16 32.0	12 ° 55.38	95 ° 2 44.9
10	13 14 36.5	12 ° 53.63	95 ° 2 41.4

Comparison Star.

In a letter addressed to the President, M. Borrelly gives the following additional particulars :—

	Mag- nitude.	Mean R.A. for 1872°.	Correction for Date.	Mean N.P.D. for 1872°.	Correction for Date.
994 Weisse, hora 11	7-8	11 ^h 59 ^m 18 ^s .96	+ 0°.93	95° 7' 58".64	+ 6".73

The planet is equal in brightness to a star of 11-12 magnitude.

April 12, 1872.

Observations of Encke's Comet, at Mr. Bishop's Observatory, Twickenham. By Mr. Hind.

The observations marked H are by Mr. Hind; those marked P by Mr. William E. Plummer. The place of October 8 is uncertain from the faintness of the comet.

1871.	Twickenham M.T.	R.A.	Log. Fact. Par.	Decl.	Log. Fact. Par.	H
		h m s	h m s	° ' "	° ' "	
Oct. 8	7 41 8	1 23 24:	-8.6789	+35 39 9:	9.6990	H
10	10 30 42	1 15 29.1	-8.2895	36 15 36	9.4565	H
12	8 2 6	1 7 49.12	-8.6313	36 47 12.6	9.6139	P
	9 16 18	1 7 37.76	-8.4945	36 47 38.4	9.5115	H
14	8 28 24	0 58 49.29	-8.5774	37 18 32.6	9.5499	P
18	9 1 22	0 37 33.8	-8.3868	38 13 52.0	9.4005	—
Nov. 5	10 3 38	22 7 19.62	+8.5488	35 22 38.0	9.5587	H
	15 6 53 21	20 32 6.89	+8.3630	25 27 51.1	9.6701	P
16	7 30 41	20 23 4.37	+8.4883	24 10 32.7	9.7177	H
17	7 6 13	20 14 36.51	+8.4504	22 54 5.3	9.7228	P
18	6 59 1	20 6 13.67	+8.4864	21 35 24.7	9.7410	—
20	7 48 52	19 49 42.28	+8.5807	18 51 54.0	9.5047	—
Dec. 2	5 4 18	18 27 19.41	+8.5067	3 3 34.8	9.8794	H
3	5 15 28	18 21 15.82	+8.5371	1 47 46.1	9.8856	—
4	5 12 5	15 23.01	+8.5463	0 33 52.6	9.6110	P
5	27 57	18 15 20.41	+8.5630	+0 33 10.7	9.8905	H
5	5 16 4	18 9 36.76	+8.5618	-0 38 50.3	9.6336	P
6	5 17 22	18 3 57.71	+8.5728	-1 50 48.9	9.6496	—
				E		